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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/673,121	11/27/2000		Arild Follestad	FRD-043	9468	
75	90	03/12/2003				
Patent Admini	strator		EXAMINER			
Testa Hurwitz &		lt	BROWN, JENNINE M			
125 High Street High Street Tov						
Boston, MA 02110				ART UNIT	PAPER NUMBER	
				1755	7	
				DATE MAILED: 03/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	-		Applicati	on N .	Applicant(s)	
		~	09/673,1	21	FOLLESTAD ET AL.	
Offic		Action Summary	Examine		Art Unit	·
			Jennine N		1	
D 16	Th MAI	LING DATE of this communicat	tion appears on the	e cover shee	1755 t with the correspondenc addre	
A SH THE I - Exter after - If the - If NO - Failu - Any r	ORTENED MAILING [nsions of time r SIX (6) MONTE period for reply period for reply re to reply within	O STATUTORY PERIOD FOR DATE OF THIS COMMUNICA may be available under the provisions of 3: HS from the mailing date of this communic ty specified above is less than thirty (30) do	R REPLY IS SET T ATION. 7 CFR 1.136(a). In no evi- cation. ays, a reply within the stat by period will apply and w	ent, however, ma utory minimum of Ill expire SIX (6) N	MONTH(S) FROM y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this comm	
1)	Respons	ive to communication(s) filed (on			
2a)□			☐ This action is	non-final		
3)		/-			natters, prosecution as to the m	
,	closed in on of Clair	accordance with the practice	under Ex parte Q	uayle, 1935	C.D. 11, 453 O.G. 213.	ierits is
4)🖂	Claim(s)	1-12 is/are pending in the app	lication.			
4	4a) Of the	above claim(s) is/are w	vithdrawn from cor	sideration.		
		is/are allowed.				
6)⊠	Claim(s) <u>1</u>	-9 and 12 is/are rejected.				
		0 and 11 is/are objected to.				
		are subject to restriction	and/or election re	quirement.		
Application	on Papers			4		
9) <u></u> ⊤	he specific	cation is objected to by the Ex	aminer.			
10)∏ T	he drawing	g(s) filed on is/are: a)[accepted or b)	objected to by	the Examiner.	
_	Applicant r	may not request that any objectio	on to the drawing(s) I	oe held in abe	yance. See 37 CFR 1.85(a).	
11)∐ T	he propose	ed drawing correction filed on	is: a) 🗌 ap	proved b)	disapproved by the Examiner.	
		d, corrected drawings are required		ce action.		
		declaration is objected to by t	the Examiner.			
Priority ur	nder 35 U.	S.C. §§ 119 and 120				
13)⊠ <i>A</i>	Acknowled	gment is made of a claim for f	foreign priority und	er 35 U.S.C	. § 119(a)-(d) or (f).	
a)⊠	All b)□	Some * c) ☐ None of:				
1	I. ☐ Certif	fied copies of the priority docu	ıments have been	received.		
2	.☐ Certif	fied copies of the priority docu	ıments have been	received in	Application No	
	3.⊠ Copie a		e priority documen	ts have bee	n received in this National Stag	е
					. § 119(e) (to a provisional appl	lication)
a) [15)∐ Ac	☐ The trai knowledgr	nslation of the foreign languag nent is made of a claim for do	ge provisional appl	ication has I	peen received	ication).
ttachment(s	•					
) Notice o	of Draftsperso	s Cited (PTO-892) on's Patent Drawing Review (PTO-94) re Statement(s) (PTO-1449) Paper N	48) 5 lo(s) <u>6</u> . 6) 🔲 Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	
Patent and Trade O-326 (Rev.		Offi	ic Action Summary		Part of Pape	

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-9 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Sartain, et al. (US 6395669).

Sartain, et al. teach a catalyst system for the polymerization of ethylene comprising a chromium oxide complex (Ziegler-Natta type) and a zirconocene each supported on an inorganic support (e.g. calcined silica) (col. 3, I. 29-39). The cyclopentadienyl compound is substituted with linear, branched, cyclic or partially cyclic alkyl radicals and annelated cyclic radicals, containing 1-20 carbon atoms; unsubstituted and substituted monocyclic or polycyclic aryl radicals which optionally also may contain heteroatoms; and aralkyl radicals wherein the substituents on the cyclopentadienyl ring

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may also form annelated structures comprising one or more fused benzene, naphthalene or cyclohexene rings which optionally may contain heteroatoms, and the two cyclopentadienyl rings may also be connected through a bridge (col. 4, I. 39 – col. 5, I. 27). The zirconocene complex is taught with ligands having chloride, methyl, benzyl or phenoxymethyl and combinations thereof (col. 8, I. 6-34; col. 4, I. 39 – col. 5, I. 27). The chromium complex is also taught (col. 8, I. 42-47). Silica particle size it taught to be in the range of 20 um to 150 um and a surface area from 200 m2/g to 600 m2/g (col. 4, I. 9-14; col. 15, I. 65 – col. 16, I. 35). Chromium is present in an amount from 0.1% to 10% weight calculated as chromium to silica catalyst, more preferably from 0.5 to 2.0% (col. 6, I. 66 – col. 7, I. 4; col. 8, I. 60-67).

Allowable Subject Matter

Claims 10 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Prior art of record does not fairly teach or suggest specific molar ratios between the Ziegler Natta catalyst metal and the metallocene metal.

Relevant Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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WO 97/27225 teaches an ethylene polymerization catalyst and process using a two catalyst system (A, B) comprising chromium oxide supported catalyst (A) and a biscyclopentadienyl chromium supported catalyst (B).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennine M. Brown whose telephone number is (703) 305-0435. The examiner can normally be reached on M-F 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell can be reached on (703) 308-3823. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 879-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

jmb March 10, 2003 Supervisory Patent Examiner
Technology Center 1700